

Advanced UVOIR Mirror Technology Development for Very Large Space Telescopes

Completed Technology Project (2010 - 2014)



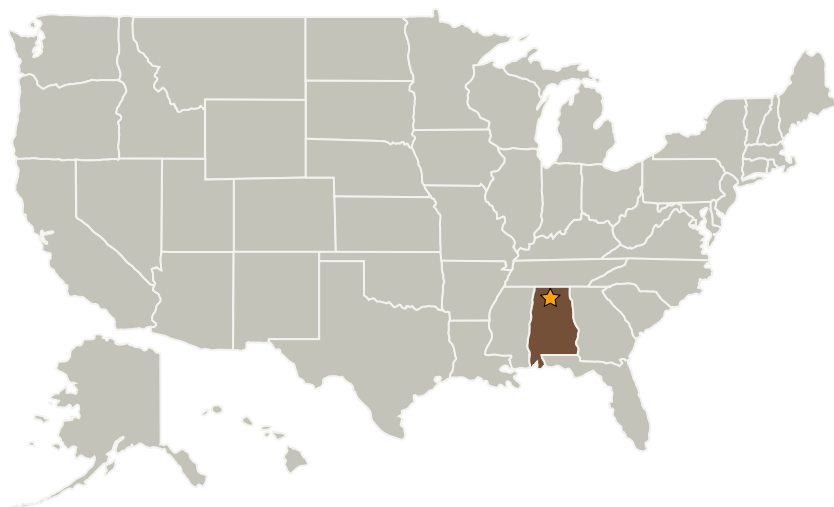
Project Introduction

Future UV/Optical telescopes will require increasingly large apertures to answer the questions raised by HST, JWST, Planck and Herschel, and to complement the = 30-m ground-based telescopes that will be coming on line in the next decade. Apertures in space in a 10m-class scale will be needed to serve this goal. For diffraction limited performance, technologies are therefore required that provide a high degree of thermal and dynamic stability, and wave front sensing and control.

Anticipated Benefits

N/A

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Marshall Space Flight Center (MSFC)	Lead Organization	NASA Center	Huntsville, Alabama

Primary U.S. Work Locations

Alabama



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Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

Marshall Space Flight Center (MSFC)

Responsible Program:

Astrophysics Research and Analysis

Project Management

Program Director:

Michael A Garcia

Program Manager:

Dominic J Benford

Principal Investigator:

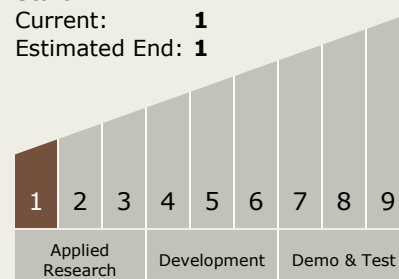
H. P Stahl

Technology Maturity (TRL)

Start: **1**

Current: **1**

Estimated End: **1**



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Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └ TX08.2 Observatories
 - └ TX08.2.1 Mirror Systems

Target Destination

Outside the Solar System